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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/939,384	08/24/2001	John Anthony Tejada	004578.1152	3457
7590 03/02/2004			EXAMINER	INER
Baker Botts L.L.P.			HASAN, MOHAMMED A	
2001 Ross Avenue, Suite 600 Dallas, TX 75201-2980			ART UNIT	PAPER NUMBER
			2873	
			DATE MAILED: 03/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

		K.N			
	Application No.	Applicant(s)			
	09/939,384	TEJADA ET AL.			
Office Action Summary	Examiner	Art Unit			
	Mohammed Hasan	2873			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be ly within the statutory minimum of thirty (30) will apply and will expire SIX (6) MONTHS free, cause the application to become ABANDO	days will be considered timely. from the mailing date of this communication. ONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	<u>_</u> .				
<u> </u>					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1 - 20 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4 - 7, 8,11 and 17 is/are rejected. 7) Claim(s) 2, 3, 9 - 10, 12 - 16, 18 - 20 is/are of 8) Claim(s) are subject to restriction and/or 	wn from consideration.				
Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 11 December 2001 is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	re: a)⊠ accepted or b)□ objection of the drawing (s) be held in abeyance.	See 37 CFR 1.85(a).			
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority documents application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicative documents have been rece u (PCT Rule 17.2(a)).	ation No ived in this National Stage			
Attachment(s) I) Notice of References Cited (PTO-892) Proposition of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail	Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informa 6) Other:	l Patent Application (PTO-152)			

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DETAILED ACTION

Oath/Declaration

1. Oath and declaration filed on 12/11/2001 is accepted.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 4 – 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim subject matter which applicant regards as the invention.

The phrase "a second mirror blank" (claim 4) lacks antecedent basis. Because claim 4 depends on claim 1. The claim 1 refers to a first mirror blank, but not set forth a second mirror blank.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

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the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 11 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Shen et al (5,282,016).

Regarding claim 1, Shen et al discloses (refer to figure 1) a method for providing optical alignment for a visible wavelength reflective system (e.g., telescope 20) having a primary mirror (22) having a single precision pinhole (30). Shen et al discloses all of the claim invention except securing a mirror to the lathe fixture. However, Shen discloses the primary mirror (22), the secondary mirror (24) and the sensor 32 are supported in their respective positions by a frame (36) (column 4, lines 25 – 49).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a lathe fixture in an optical alignment system since the examiner takes official notice of the equivalence of supported frame (36) and lathe fixture for their use in the optical alignment process and the selection of any of these known equivalents to hold the optical components would be within the level of ordinary skill in the art.

Regarding claim 11, Shen et al discloses (refer to figure 1) a method for providing optical alignment for a visible wavelength reflective system (e.g., telescope 20) having a primary mirror (22) having a single precision pinhole (30). Shen et al discloses all of the claim invention except mirror to the lathe fixture. However, Shen discloses the primary mirror (22), the secondary mirror (24) and the sensor 32 are supported in their respective positions by a frame (36) (column 4, lines 25 – 49).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a lathe fixture in an optical alignment system since the examiner takes official notice of the equivalence of supported frame (36) and lathe fixture for their use in the optical alignment process and the selection of any of these known equivalents to hold the optical components would be within the level of ordinary skill in the art.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Claims 8 and 17 are rejected under 35 U.S.C. 102 (b) as being anticipated by Shen et al (5,282,016).

Regarding claim 8, Shen et al discloses (refer to figure 1) a method for providing optical alignment for a visible wavelength reflective system comprising: positioning a first mirror (22) on an assembly housing, the first mirror comprising a single precision pinhole (30); securing the first mirror to the assembly housing; positioning a second mirror (24) on the assembly housing, the second mirror comprising a single precision pinhole (30) and the securing the second mirror to the assembly housing (column 4, lines 25-49).

Regarding claim 17, Shen et al discloses (refer to figure 1) a method for providing optical alignment for a visible wavelength reflective system comprising:

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positioning a first mirror (22) on an assembly housing, the first mirror comprising a single precision pinhole (30); securing the first mirror to the assembly housing; positioning a second mirror (24) on the assembly housing, the second mirror comprising a single precision pinhole (30) and the securing the second mirror to the assembly housing (column 4, lines 25 – 49).

Allowable Subject Matter

- 5. Claims 2, 3, 9, 10, 12 15, and 18 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 6. The following is a statement of reasons for the indication of allowable subject matter: The prior art fails to show the first mirror comprising a tolerance stack-up associated with the lathe fixture of less than 6.0 microns in a single direction, .5 microns in a single direction, a tolerance stack-up associated with the assembly housing of less than 6.5 microns in a single direction and the second mirror comprising a tolerance stack-up associated with the assembly housing of less than 6.0 microns in a single direction, the first mirror comprising a tolerance stack-up associated with the assembly housing of approximately 2.0 microns in a single direction and the second mirror comprising a tolerance stack-up associated with the assembly housing of approximately 2.0 microns in a single direction and the mirror blank comprising bolt holes, the mirror blank operable to be secured to the lathe fixture through the bolt holes.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The closest prior art

Bushroe (5,257,051) discloses method and apparatus for adjusting the optical alignment of a film projection system.

Adachi (5,076,689) discloses off axis mirror alignment.

Cook (5,847,879) discloses dual wavelength wide angle large reflective unobscured system.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohammed Hasan whose telephone number is (571) 272-2331. The examiner can normally be reached on M-TH, 7:00 AM to 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Epps can be reached on (571) 272- 2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MH February 11, 2004

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